WM-FX305/FX309

SERVICE MANUAL

Canadian Model
AEP Model
UK Model
E Model
WM-FX305

East European Model
WM-FX305/FX309

Photo: WM-FX305

Model Name Using Similar Mechanism	WM-FX303
Tape Transport Mechanism Type	MF-WMFX305-43

SPECIFICATIONS

Radio FM: 87.5 — 108 MHz; Italian Model
87.6 — 108 MHz; Canadian Model
65.0 — 108 MHz; East European Model
87.6 — 107.9 MHz; Other Models
AM: 526.5 — 1606.5 kHz; Italian Model
530 — 1710 kHz; Canadian Model
531 — 1602 kHz; Other Models

Power requirements
- 3 V DC batteries R6 (AA) x 2
- External DC 3 V power sources

Battery life (approximate hours)

Sony Alkaline AM3 (N)	Sony SUM-3 (NS)	FX309: Rechargeable battery NC-AA(WM) (Full charge)
8 hrs. (playback) 30 hrs. (radio)	4 hrs. (playback) 15 hrs. (radio)	3.5 hrs. (playback) 12 hrs. (radio)

Dimensions
93.9 x 118.5 x 35.7 mm (w/h/d)
(3 3/4 x 4 3/4 x 1 7/16 in.) incl. projecting parts

Mass 205 g (7.3 oz) incl. batteries

Supplied accessories
- Stereo headphones (1)
- Belt clip (1)
- Rechargeable battery (2) ; FX309
- Battery charger (1) ; FX309

Your dealer may not handle some of the above listed accessories.
Please ask the dealer for detailed information.

Design and specifications are subject to change without notice.

Note
This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

使用時は添付資料も参照のこと
Refer to the additional documents.

RADIO CASSETTE PLAYER

SONY®

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SAFETY-RELATED COMPONENT WARNING!!

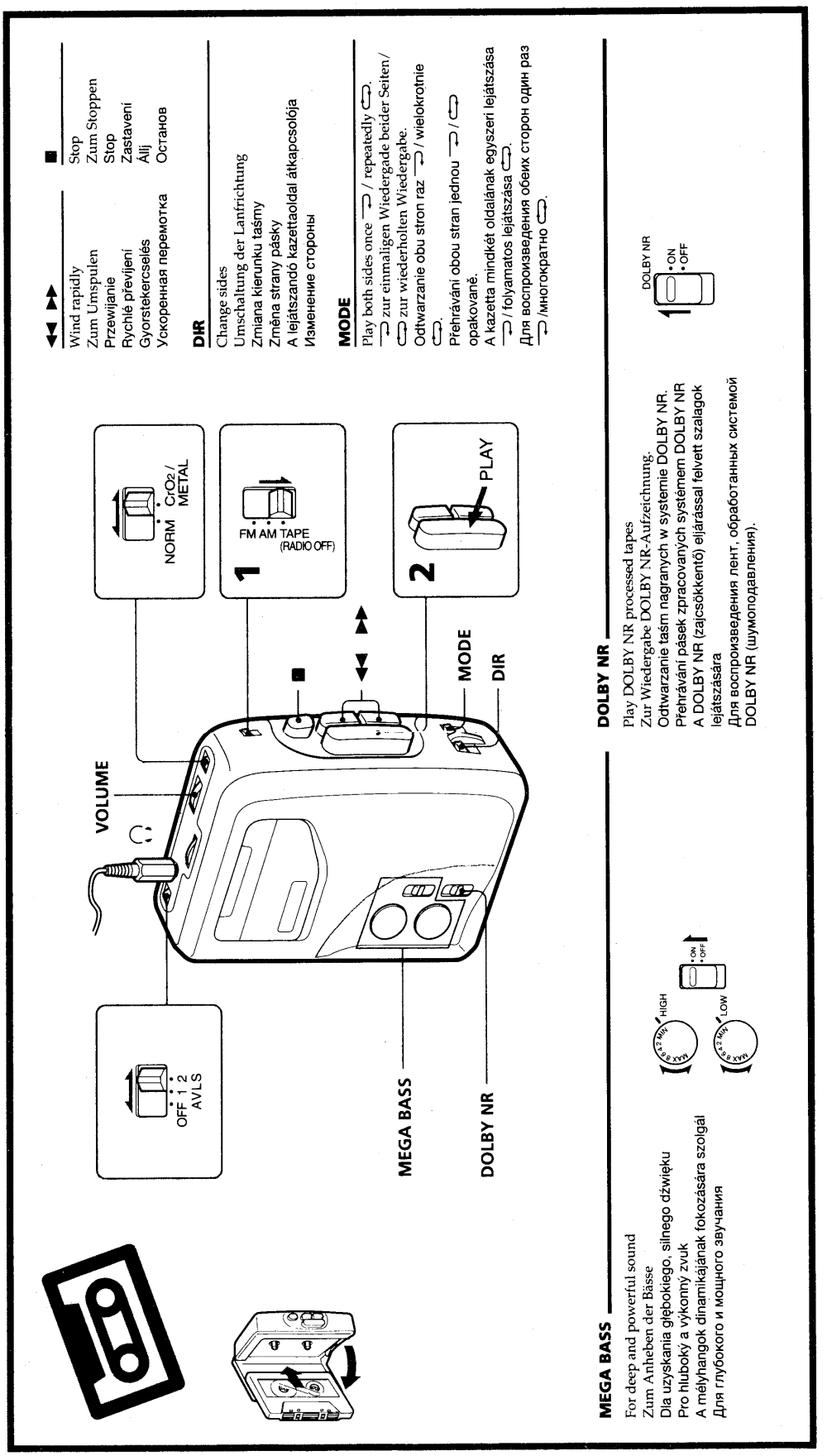
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

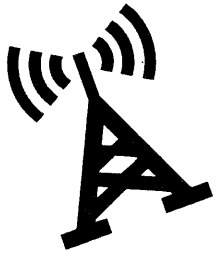
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

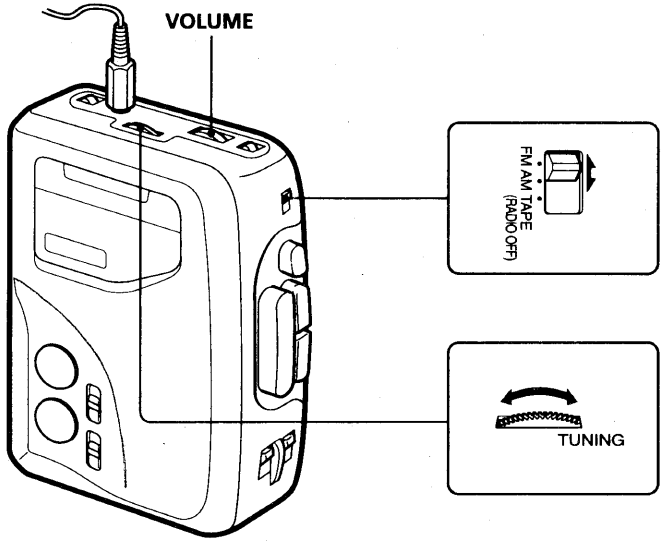
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

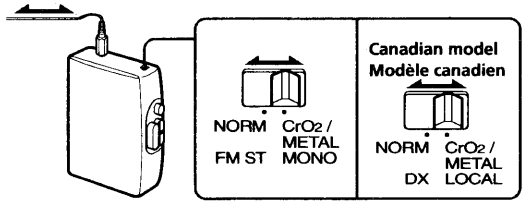




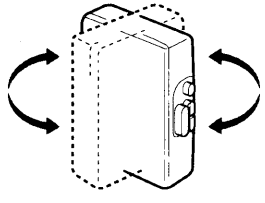


Improve radio reception/Amélioration de la réception radio/Für optimalen Empfang/Mejora de la radiorrecepción/Verbeteren van de radio-ontvangst/Tydligare radiomottagning/Per migliorare la ricezione radio/Para melhorar a recepção de rádio

FM (UKW)
Extend the headphones cord and adjust the FM ST/MONO selector or DX/LOCAL selector (for Canadian model).
Déployer le cordon du casque et régler le sélecteur FM ST/MONO ou le sélecteur DX/LOCAL (pour le modèle Canadien).
Das Kopfhörerkabel ausbreiten und den FM ST/MONO-Wähler entsprechend den Empfangsbedingungen einstellen.
Extienda el cable de los auriculares o ajuste el selector FM ST/MONO.
Strek het hoofdtelefoonsnoer uit of verschuif de FM ST/MONO schakelaar.
Sträck ut hörlurssladden eller ställ väljaren FM ST/MONO i lämpligt läge.
Estendere il filo delle cuffie o regolare il selettore FM ST/MONO.
Estire o fio dos auscultadores ou ajuste o selector FM ST/MONO.



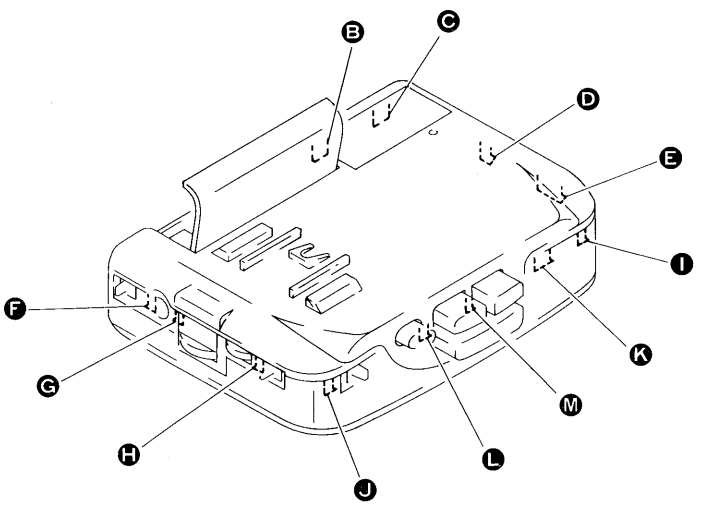
AM (MW)
Rotate the Walkman.
Tourner le Walkman.
Den Walkman drehen.
Gire el Walkman.
Verdraai de Walkman in een horizontaal vlak.
Vrid kassettradion på det horisontella planet.
Ruotare il Walkman.
Gire o Walkman.

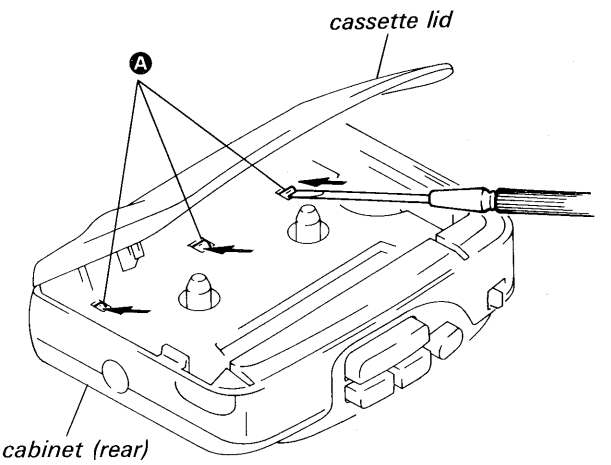


SECTION 2
DISASSEMBLY

NOTE: Follow the disassembly procedure in the numerical order given.

2-1. CABINET (REAR)

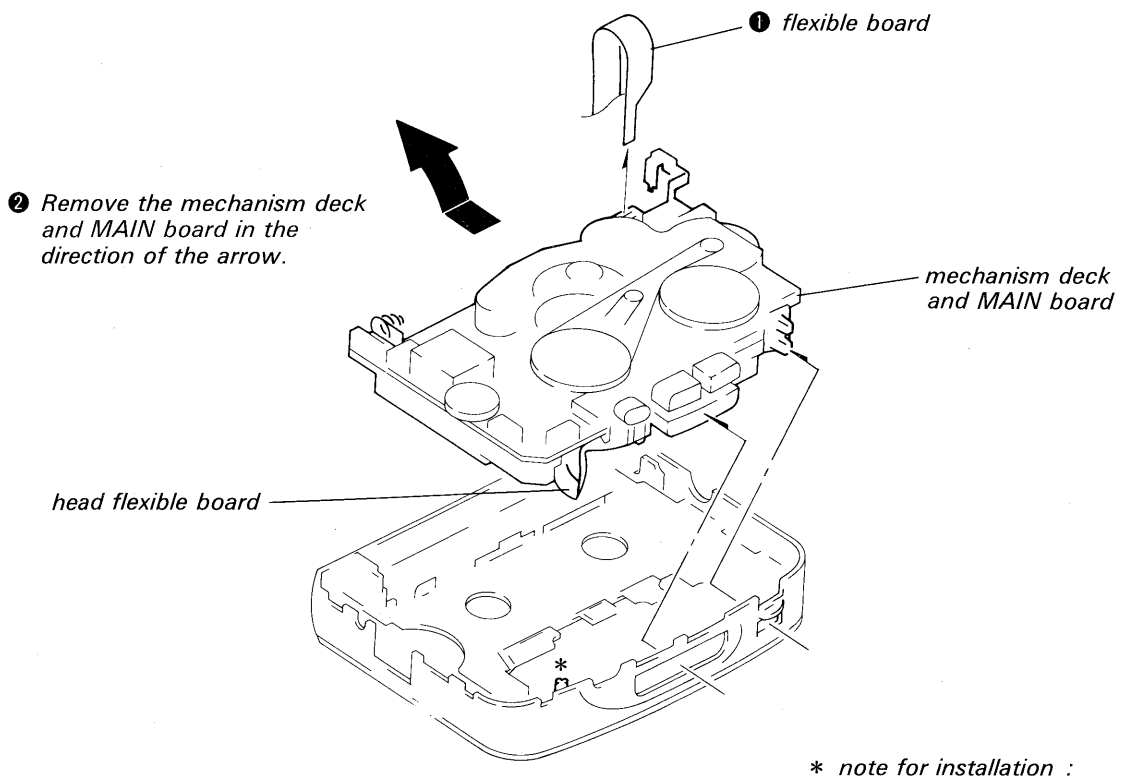




❶ *Insert the precision screw driver (1.4mm flat-blade) in to the slit at claw Ⓐ and release the claw.*

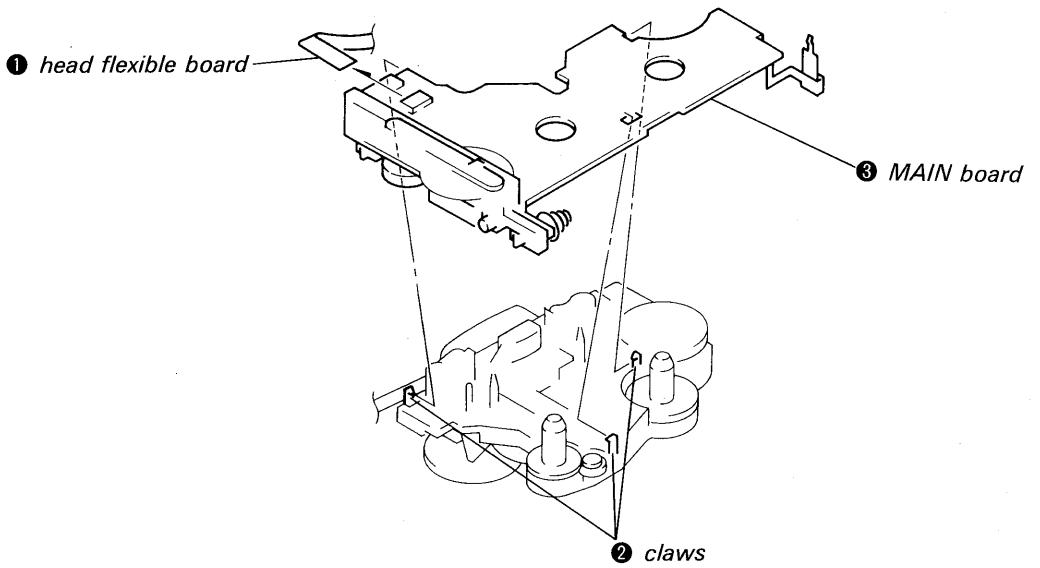
❷ *Remove the cabinet (rear). (Release all claw Ⓑ to Ⓜ in alphabetical order.)*

2-2. MECHANISM DECK AND MAIN BOARD

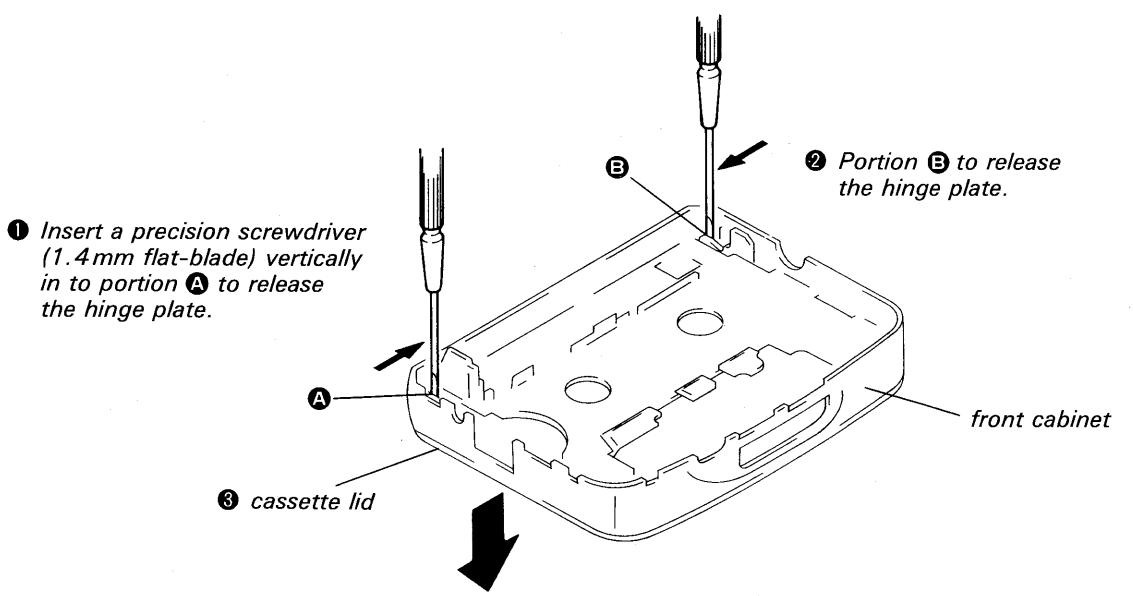

❶ flexible board
❷ Remove the mechanism deck and MAIN board in the direction of the arrow.
mechanism deck and MAIN board
head flexible board
*

* *note for installation :*
Make sure to put the head flexible board to ditch before install the mechanism deck and MAIN board.

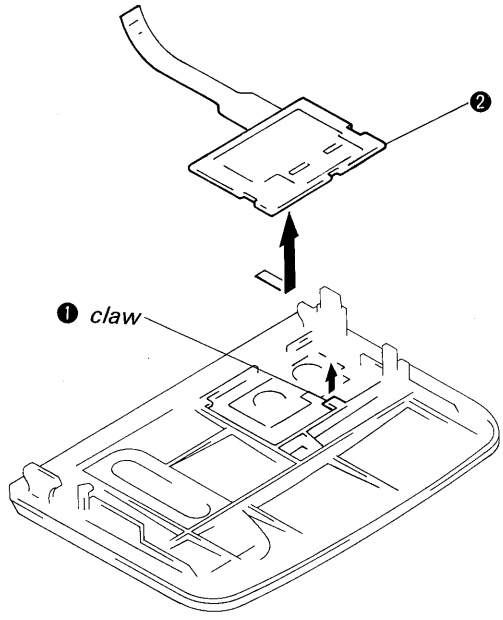
2-3. MAIN BOARD



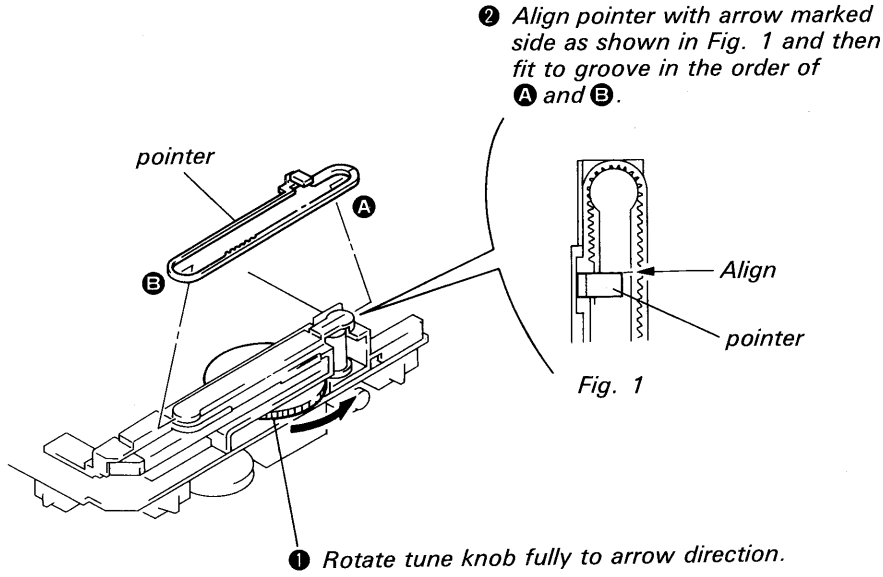
2-4. CASSETTE LID


❶ Insert a precision screwdriver (1.4mm flat-blade) vertically in to portion Ⓐ to release the hinge plate.
Ⓑ
❷ Portion Ⓑ to release the hinge plate.
Ⓐ
front cabinet
❸ cassette lid

2-5. MEGA BASS UNIT



2-6. DIAL POINTER SETTING


❷ Align pointer with arrow marked side as shown in Fig. 1 and then fit to groove in the order of Ⓐ and Ⓑ.
pointer
Ⓐ
Ⓑ
Align
pointer
Fig. 1
❶ Rotate tune knob fully to arrow direction.

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured-alcohol-moistened swab :
   playback head pinch roller
   capstan rubber belts
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage (2.5V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	20 - 42 g-cm (0.28 - 0.58 oz-inch)
FWD Back Tension		less than 2 g-cm (less than 0.03 oz-inch)
REV	CQ-102RC	20 - 42 g-cm (0.28 - 0.58 oz-inch)
REV Back Tension		less than 2 g-cm (less than 0.03 oz-inch)
FF, REW	CQ-201B	more than 60 g-cm (more than 0.83 oz-inch)

Tape Pulling Force Measurement

Mode	Torque meter	Meter reading
FWD	CQ-403A	more than 40g (more than 1.4 oz)
REV	CQ-403R	

3-2. ELECTRICAL ADJUSTMENTS

Precaution

Supplied voltage : 2.5V
Switch and control position
TAPE switch : NORM
MEGA BASS switch : OFF
VOLUME control : maximum
AVLS switch : OFF

Tape section

FUNCTION switch : TAPE

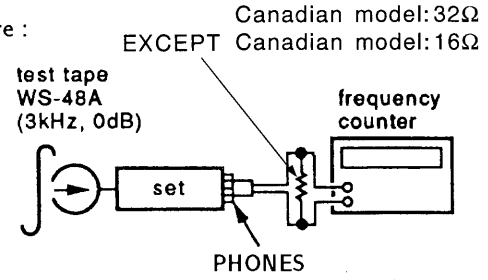
Test tape

Type	Signal	Used for
WS-48A	3kHz, 0dB	Tape Speed Adjustment

Tape speed adjustment

Tape select switch: NORM

Procedure :

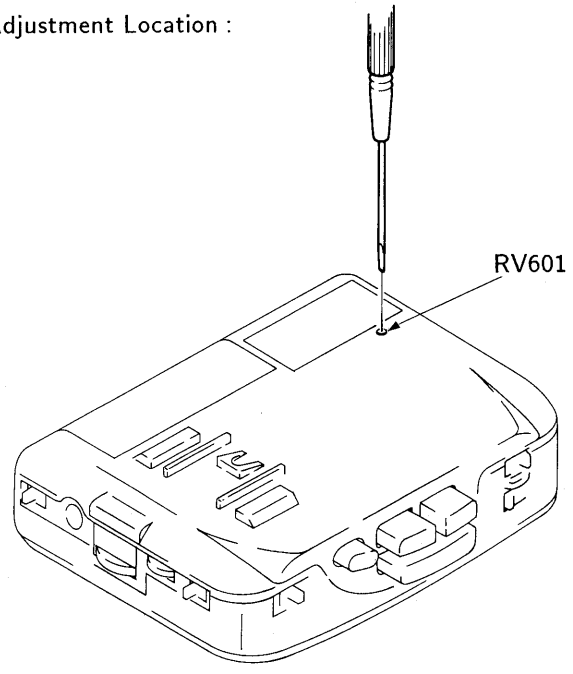


Play back WS-48A(tape center portion) in reverse mode.

Adjust the RV601 so that the frequency counter reads 2.970Hz ± 15Hz.

Frequency difference between the begining and the end of the tape should be within ±1.5%.

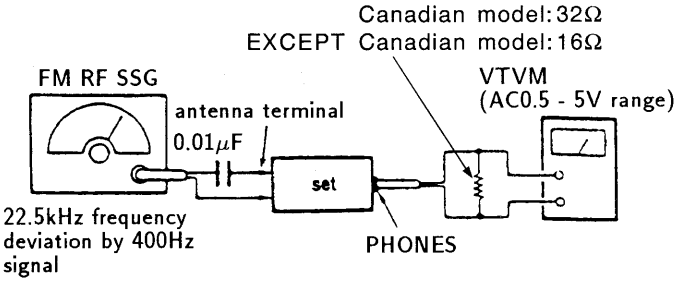
Adjustment Location :



Radio section

FUNCTION switch : RADIO

FM section



Repeat the procedure in each adjustment several times since L (3, 2) affects CT (3, 2) and CT (3, 2) affects L (3, 2). Both the frequency coverage and tracking adjustments should end with the final adjustment of the trimmer capacitors.

FM Frequency Coverage Adjustment

Pointer position	SG frequency	Adjustment part	Reading on VTVM
f minimum	86.0MHz ((87.35MHz)) [64MHz] 〈87.35MHz〉	L3	maximum
f maximum	109.5MHz ((108.25MHz)) [109.5MHz] 〈107.8MHz〉	CT3	

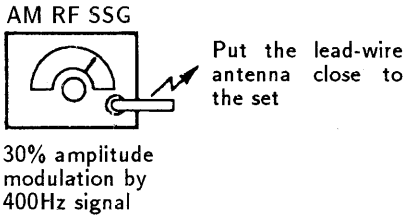
(( )) : Italian model, [ ] : East European model,
〈 〉 : Saudi Arabia model

FM Tracking Adjustment

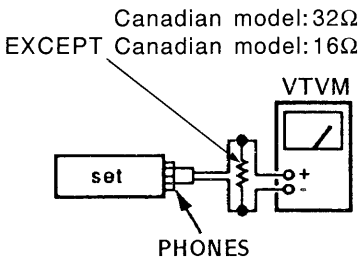
SG and set frequency	Adjustment part	Reading on VTVM
86.0MHz ((87.35MHz)) [64MHz] 〈87.35MHz〉	L2	maximum
109.5MHz ((108.25MHz)) [109.5MHz] 〈107.8MHz〉	CT2	

(( )) : Italian model, [ ] : East European model,
〈 〉 : Saudi Arabia model

AM section



Repeat the procedure in each adjustment several times since L (4, 1) affects CT (4, 1) and CT (4, 1) affects L (4, 1). Both the frequency coverage and tracking ajustments should end with the final adjustment of the trimmer capacitors.



AM IF Adjustment

SG and set frequency	Adjustment part	Reading on VTVM
455kHz (468kHz)	T1	maximum

( ): UK model

AM Frequency Coverage Adjustment

Pointer position	SG frequency	Adjustment part	Reading on VTVM
f minimum	505kHz ((516.5kHz)) [516.5kHz]	L4	maximum
f maximum	1,750kHz ((1,631.5kHz)) [1,631kHz]	CT4	

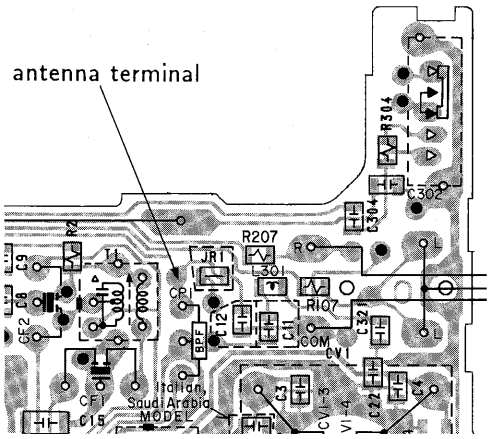
(( )) : Italian model,
[ ] : East European, Saudi Arabia model

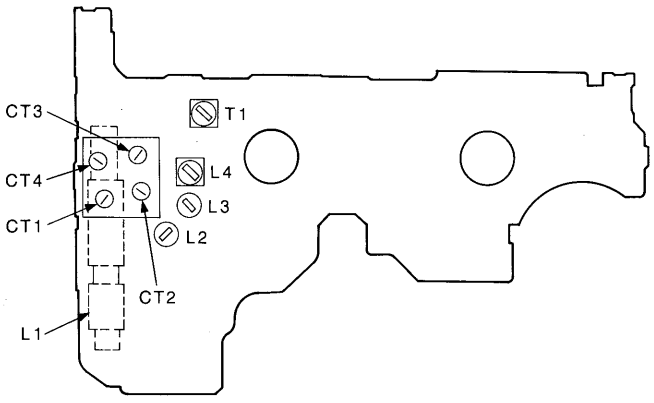
AM Tracking Adjustment

SG and set frequency	Adjustment part	Reading on VTVM
620kHz ((800kHz)) [800kHz]	L1	maximum
1,400kHz ((1,300kHz)) [1,300kHz]	CT1	

(( )) : Italian model,
[ ] : East European, Saudi Arabia model

Adjustment Location : main board



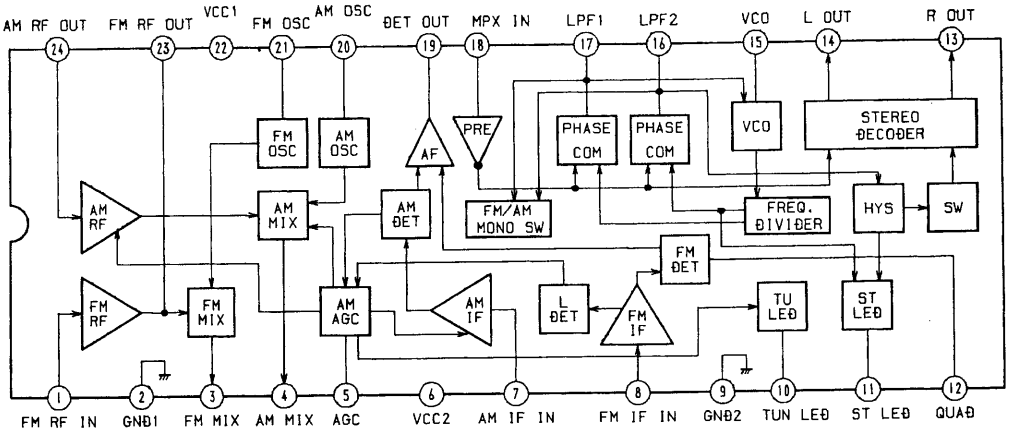


- Component Side -

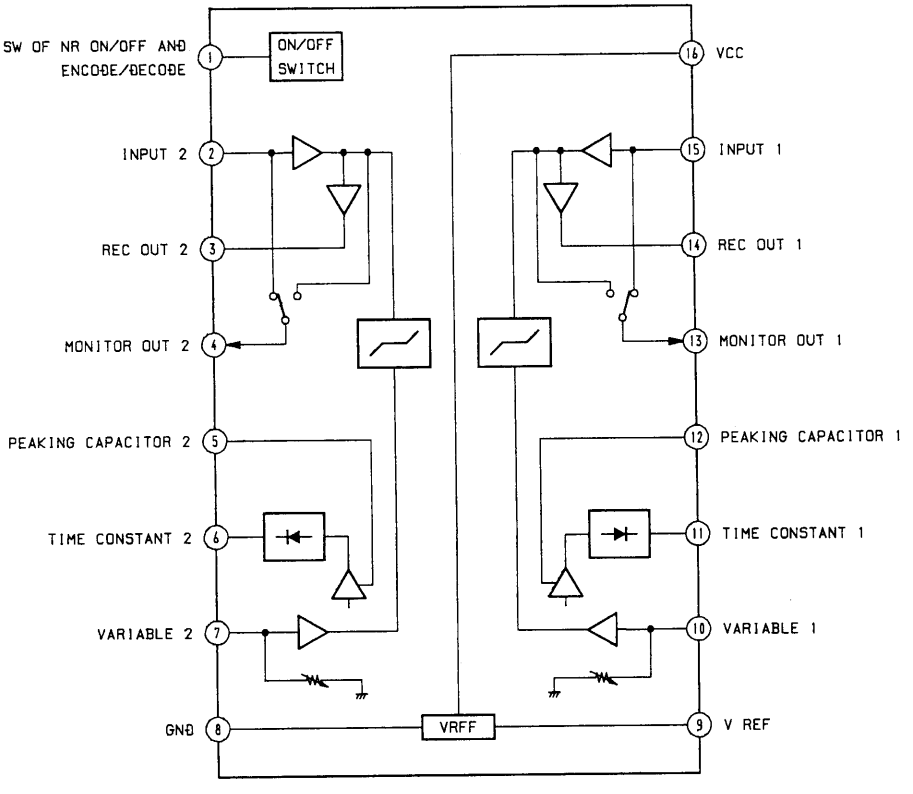
SECTION 4
DIAGRAMS

• IC Block Diagrams

IC1 TA8122AF

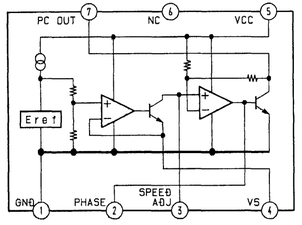


IC331 NJM2063AM



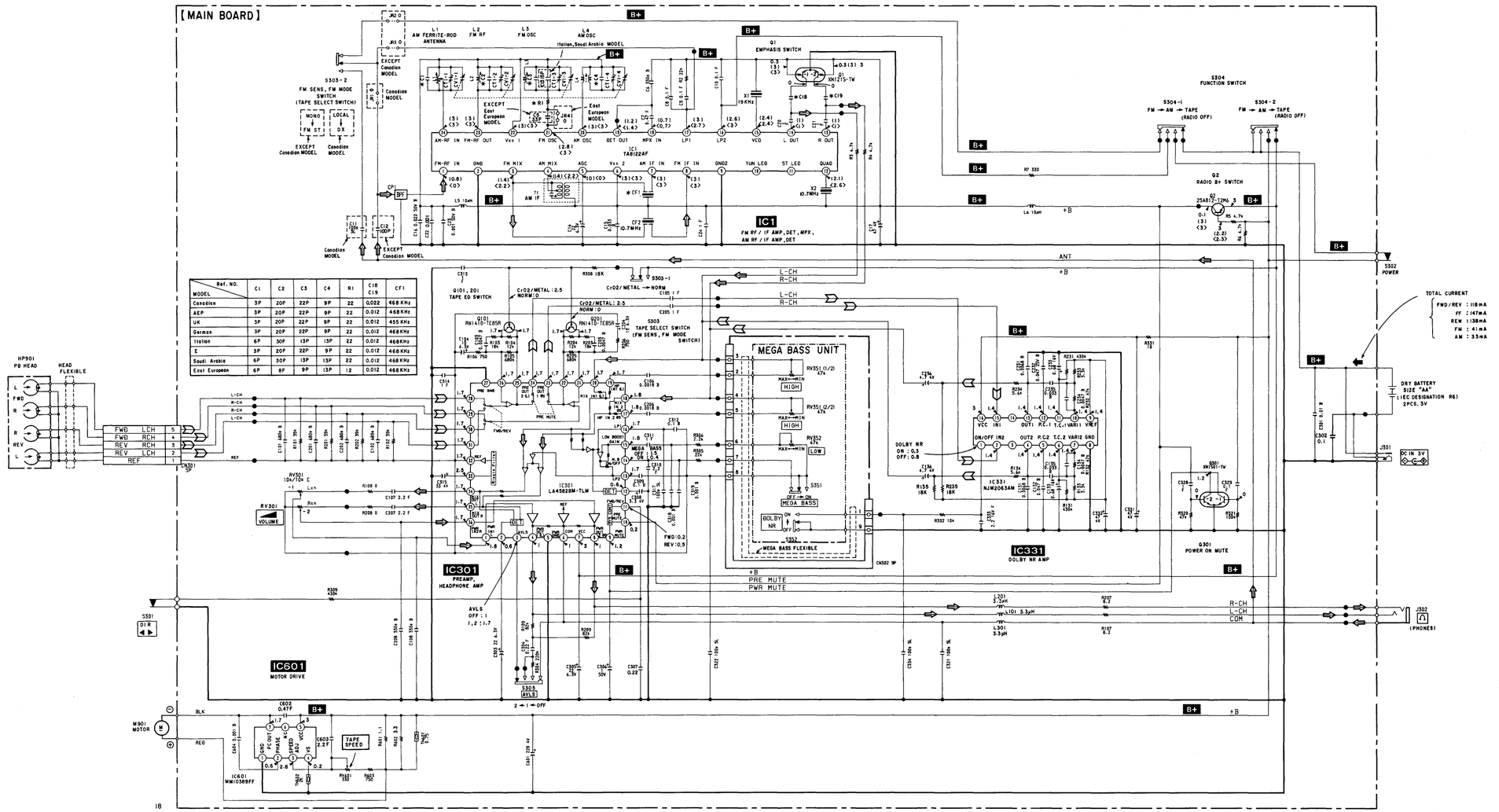
4-1. SCHEMATIC DIAGRAM

IC601 MM1038BFF-T1



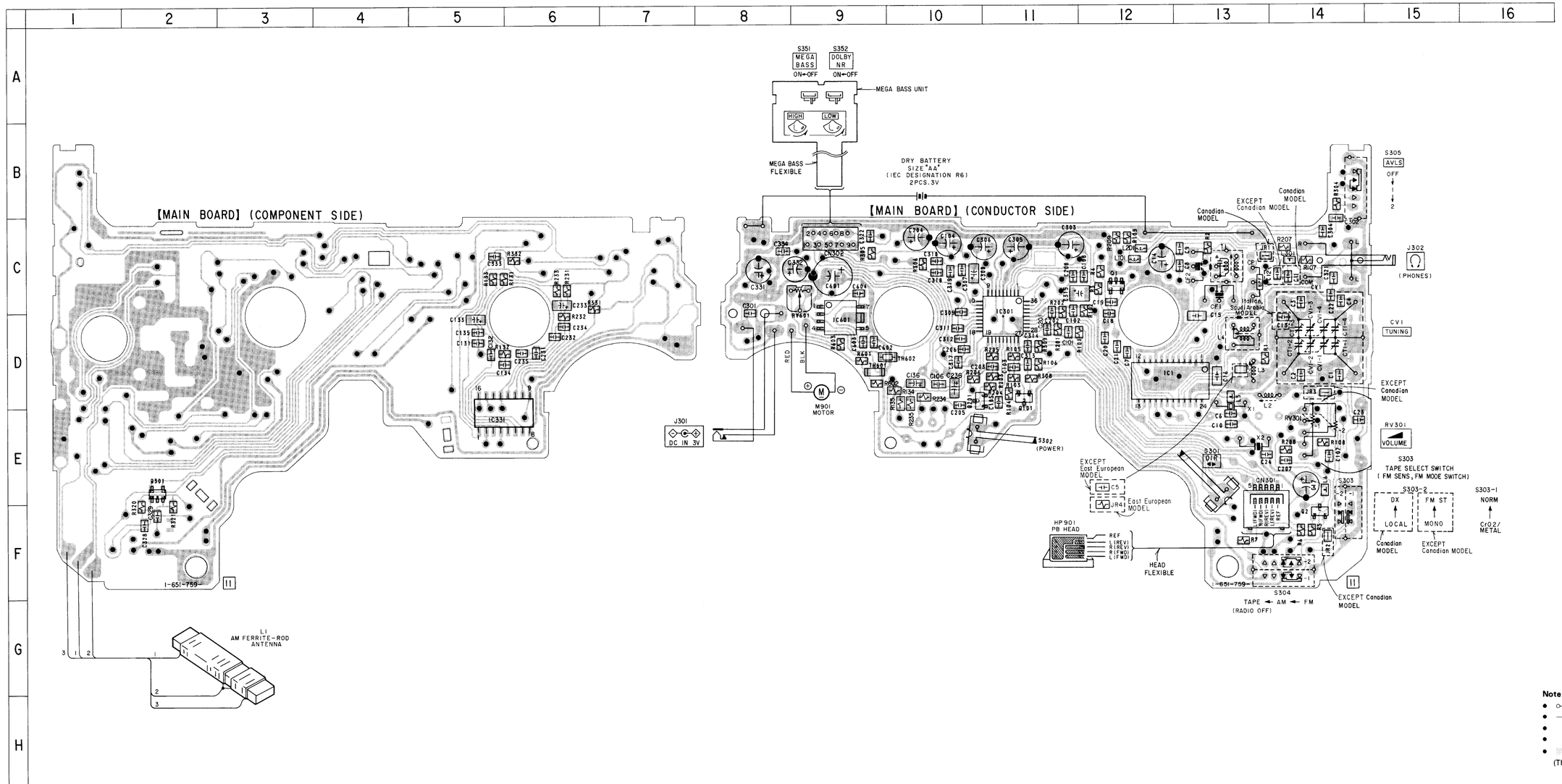
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 3 V and fed with regulated dc power supply from external power voltage jack.
- Voltage is dc with respect to ground under detuned conditions. no mark : PLAY
  ( ) : FM
  < > : AM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⇨ : PLAY



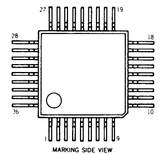
Ref. NO. / MODEL	C1	C2	C3	C4	R1	C16 C19	CF1
Canadian	3P	20P	22P	9P	22	0.022	468 KHz
AEP	3P	20P	22P	9P	22	0.012	468 KHz
UK	3P	20P	22P	9P	22	0.012	455 KHz
German	3P	20P	22P	9P	22	0.012	468 KHz
Italian	6P	30P	13P	13P	22	0.012	468 KHz
E	3P	20P	22P	9P	22	0.012	468 KHz
Saudi Arabia	6P	30P	13P	13P	22	0.012	468 KHz
East European	6P	8P	9P	13P	12	0.012	468 KHz

4-2. PRINTED WIRING BOARD



● **Semiconductor Lead Layout**

LA4582BM



● **Semiconductor Location**

Ref. No.	Location
IC1	D - 12
IC301	D - 11
IC331	E - 5
IC601	D - 9
Q1	C - 12
Q2	F - 14
Q101	D - 11
Q201	D - 10
Q301	E - 2

Note on Printed Wiring Board:

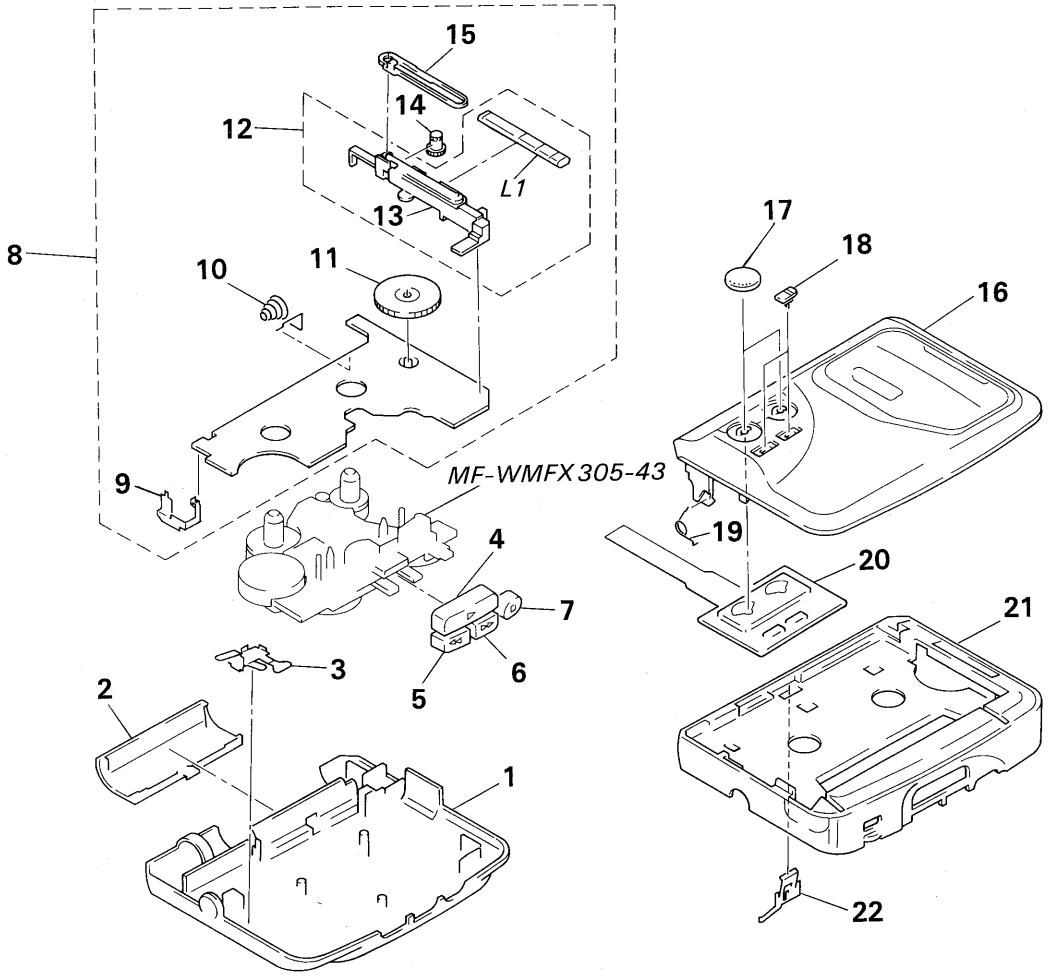
- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ⊡ : indicates side identified with part number.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
  (The other layer's patterns are not indicated.)

SECTION 5
EXPLODED VIEWS

NOTE:

- -xx,-x mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE)...(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (#mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviations
  EA: Saudi Arabia
  EE: East European
  G: German
  IT: Italian

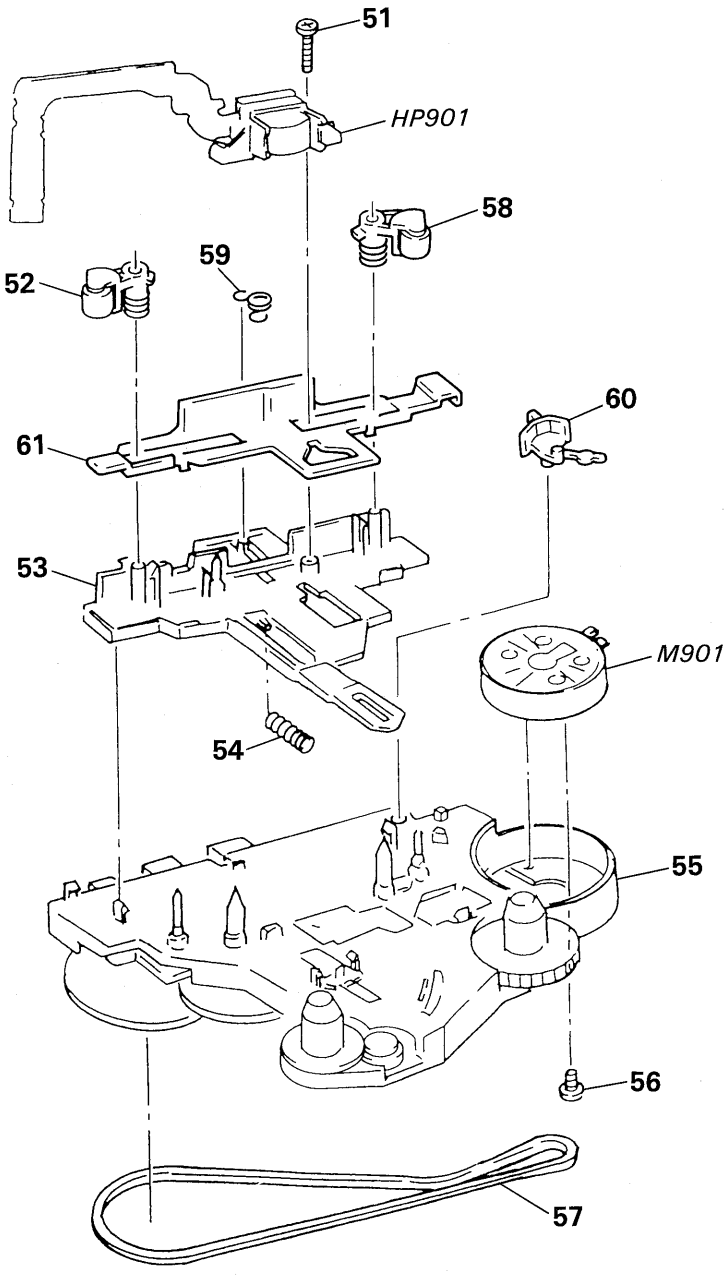
5-1. MAIN SECTION



Ref.No.	Part No.	Description	Remark
1	3-910-933-01	CABINET (REAR) (CF-R)	
2	3-910-922-01	LID, BATT	
3	3-910-896-01	GROUND, MOTOR	
4	3-910-918-01	BUTTON (PLAY)	
5	3-910-917-01	BUTTON (REW)	
6	3-910-916-01	BUTTON (FF)	
7	3-910-915-01	BUTTON (STOP)	
8	A-3016-515-A	MAIN BOARD, COMPLETE (EE)	
8	A-3016-516-A	MAIN BOARD, COMPLETE (IT)	
8	A-3016-517-A	MAIN BOARD, COMPLETE (Canadian)	
8	A-3016-518-A	MAIN BOARD, COMPLETE (UK)	
8	A-3016-519-A	MAIN BOARD, COMPLETE (AEP,E,G)	
8	A-3016-598-A	MAIN BOARD, COMPLETE (EA)	
9	3-910-894-01	TERMINAL (+), BATTERY	
10	3-910-909-01	TERMINAL (-), BATTERY	
11	3-910-923-01	KNOB (TUNE)	
12	X-3368-117-1	ANTENNA SUB ASSY, BAR	

Ref.No.	Part No.	Description	Remark
*13	3-910-904-01	CHASSIS, ANTENNA	
14	3-910-897-01	GEAR (TUNE)	
15	3-910-893-01	POINTER	
16	X-3367-927-1	HOLDER (CR-F) SUB ASSY, CASSETTE	(WM-FX305:EE)
16	X-3367-928-1	HOLDER (CF-R) SUB ASSY, CASSETTE	(Canadian)
16	X-3367-929-1	HOLDER (CF-R) SUB ASSY, CASSETTE	(AEP,UK,E,G)
16	X-3367-954-1	HOLDER (CF-R) SUB ASSY, CASSETTE	(WM-FX309)
16	X-3367-956-1	HOLDER (CF-R) SUB ASSY, CASSETTE	(IT,EA)
17	3-910-543-01	KNOB (MB-FR)	
18	3-910-537-01	KNOB (MB-VL)	
19	3-910-924-01	SPRING, TORSION	
20	1-467-642-11	MEGA BASS UNIT (ROTARY)	
21	3-910-930-01	CABINET (FRONT) (CF-R) (Canadian)	
21	3-910-930-11	CABINET (FRONT) (CF-R) (EXCEPT Canadian)	
22	3-364-675-01	SPRING (CASSETTE)	
L1	1-501-665-11	ANTENNA, FERRITE-ROD (MW)	

5-2. MECHANISM SECTION (MF-WMFX305-43)



Ref.No.	Part No.	Description	Remark
51	3-910-635-01	SCREW	
52	X-3367-902-1	ARM (N) ASSY, PINCH	
53	3-910-644-01	LEVER, PLAY	
54	3-364-328-01	SPRING, COMPRESSION	
55	X-3368-730-1	CHASSIS ASSY	
56	3-352-758-21	SCREW (M1.7), TOOTHED LOCK	
57	3-354-868-11	BELT	

Ref.No.	Part No.	Description	Remark
58	X-3367-903-1	PINCH (R) ASSY	
59	3-910-638-11	SPRING (TOGGLE), NR	
60	3-909-698-01	LEVEL, D SELECTION	
61	3-910-643-01	ARM (NR)	
HP901	1-500-118-11	HEAD, MAGNETIC (PLAYBACK)	
M901	1-698-353-11	MOTOR, DC	

SECTION 6
ELECTRICAL PARTS LIST

MAIN

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA··· : μA···, uPA··· : μPA···, uPB··· : μPB···, uPC··· : μPC···, uPD··· : μPD···
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board.

- Abbreviations
  EA: Saudi Arabia
  EE: East European
  G: German
  IT: Italian

Ref.No.	Part No.	Description			Remark
	A-3016-515-A	MAIN BOARD, COMPLETE (EE)			
	A-3016-516-A	MAIN BOARD, COMPLETE (IT)			
	A-3016-517-A	MAIN BOARD, COMPLETE (Canadian)			
	A-3016-518-A	MAIN BOARD, COMPLETE (UK)			
	A-3016-519-A	MAIN BOARD, COMPLETE (AEP, E, G)			
	A-3016-598-A	MAIN BOARD, COMPLETE (EA)			
		**********			
		< CAPACITOR >			
C1	1-163-089-00	CERAMIC CHIP	6PF		(IT, EA, EE)
C1	1-163-086-00	CERAMIC CHIP	3PF		50V (Canadian, AEP, UK, G, E)
C2	1-163-104-00	CERAMIC CHIP	30PF	5%	50V (IT, EA)
C2	1-163-091-00	CERAMIC CHIP	8PF		50V (EE)
C2	1-163-100-00	CERAMIC CHIP	20PF	5%	50V (Canadian, AEP, UK, G, E)
C3	1-163-096-00	CERAMIC CHIP	13PF	5%	50V (IT, EA)
C3	1-163-092-00	CERAMIC CHIP	9PF	0.25PF	50V (EE)
C3	1-163-101-00	CERAMIC CHIP	22PF	5%	50V (Canadian, AEP, UK, G, E)
C4	1-163-096-00	CERAMIC CHIP	13PF	5%	50V (IT, EA, EE)
C4	1-163-092-00	CERAMIC CHIP	9PF	0.25PF	50V (Canadian, AEP, UK, G, E)
C5	1-163-239-11	CERAMIC CHIP	33PF	5%	50V (EXCEPT EE)
C6	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C7	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C8	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C9	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C10	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C11	1-163-117-00	CERAMIC CHIP	100PF	5%	50V Canadian)
C12	1-163-117-00	CERAMIC CHIP	100PF	5%	50V (EXCEPT Canadian)
C13	1-163-097-00	CERAMIC CHIP	15PF	5%	50V (IT, EA)
C14	1-126-153-11	ELECT	22uF	20%	6.3V
C15	1-163-078-11	CERAMIC CHIP	0.033uF	10%	25V
C16	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C17	1-126-154-11	ELECT	47uF	20%	6.3V
C18	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V (EXCEPT Canadian)
C18	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (Canadian)
C19	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V (EXCEPT Canadian)
C19	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (Canadian)
C20	1-164-346-11	CERAMIC CHIP	1uF		16V
C21	1-164-346-11	CERAMIC CHIP	1uF		16V
C22	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C23	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C24	1-164-346-11	CERAMIC CHIP	1uF		16V
C101	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C102	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C103	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C104	1-126-157-11	ELECT	10uF	20%	16V
C105	1-164-346-11	CERAMIC CHIP	1uF		16V
C106	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V
C107	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C108	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C131	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C132	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C133	1-135-226-21	TANTAL. CHIP	0.68uF	10%	16V
C134	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C135	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C136	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C201	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C202	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C203	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C204	1-126-157-11	ELECT	10uF	20%	16V
C205	1-164-346-11	CERAMIC CHIP	1uF		16V
C206	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V
C207	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C208	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C231	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C232	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V

Ref.No.	Part No.	Description			Remark
C233	1-135-226-21	TANTAL. CHIP	0.68uF	10%	16V
C234	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C235	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C236	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C301	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C302	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C303	1-126-153-11	ELECT	22uF	20%	6.3V
C304	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C305	1-126-153-11	ELECT	22uF	20%	6.3V
C306	1-126-160-11	ELECT	1uF	20%	50V
C307	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C308	1-135-180-21	TANTALUM CHIP	3.3uF	10%	10V
C309	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C310	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C311	1-164-346-11	CERAMIC CHIP	1uF		16V
C312	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C313	1-164-346-11	CERAMIC CHIP	1uF		16V
C314	1-164-346-11	CERAMIC CHIP	1uF		16V
C315	1-135-318-11	TANTAL. CHIP	33uF	20%	4V
C317	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C318	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C319	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C321	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C322	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C328	1-164-346-11	CERAMIC CHIP	1uF		16V
C329	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C331	1-126-154-11	ELECT	47uF	20%	6.3V
C332	1-126-154-11	ELECT	47uF	20%	6.3V
C333	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C334	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C601	1-124-434-00	ELECT	220uF	20%	4V
C602	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C603	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C604	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V

< FILTER >

CF1	1-567-129-00	FILTER, CERAMIC (455kHz) (UK)
CF1	1-527-870-00	FILTER (468kHz) (EXCEPT UK)
CF2	1-567-097-61	FILTER, CERAMIC (10.7MHz)

< CONNECTOR >

CN301	1-569-252-21	HOUSING, CONNECTOR (FPC) 5P
*CN302	1-764-854-11	HOUSING, CONNECTOR 9P

< BAND PASS FILTER >

CP1	1-239-813-11	FILTER, BAND PASS (EE)
CP1	1-236-711-21	FILTER, BAND PASS (EXCEPT EE)

Ref.No.	Part No.	Description	Remark

< VARIABLE CAPACITOR >

CV1	1-151-692-11	CAP, VAR, POLYETHYLENE (TUNING) (EE)
CV1	1-151-629-31	CAP, VAR, POLYETHYLENE (TUNING) (EXCEPT EE)

< IC >

IC1	8-759-230-39	IC	TA8122AF
IC301	8-759-257-22	IC	LA4582BM
IC331	8-759-701-07	IC	NJM2063AM
IC601	8-759-166-43	IC	MM1038BFF-T1

< JACK >

J301	1-750-061-11	JACK, DC (POLARITY UNIFIED TYPE) (DC IN 3V)
J302	1-565-287-11	JACK (PHONES)

< JUMPER RESISTOR >

JR1	1-216-295-00	METAL CHIP	0	5%	1/10W (Canadian)
JR2	1-216-295-00	METAL CHIP	0	5%	1/10W (EXCEPT Canadian)
JR3	1-216-295-00	METAL CHIP	0	5%	1/10W (EXCEPT Canadian)
JR4	1-216-295-00	METAL CHIP	0	5%	1/10W (EE)

< COIL >

L1	1-501-665-11	ANTENNA, FERRITE-ROD (MW)
L2	1-460-124-11	COIL (WITH CORE) (FM RF) (IT)
L2	1-460-123-12	COIL (WITH CORE) (FM RF) (EA)
L2	1-426-578-11	COIL (WITH CORE) (FM RF) (EE)
L2	1-460-120-11	COIL (WITH CORE) (FM RF) (Canadian, AEP, UK, G, E)
L3	1-403-697-11	COIL (WITH CORE) (FM OSC) (IT, EA)
L3	1-409-655-11	COIL (WITH CORE) (FM OSC) (EE)
L3	1-403-696-11	COIL (WITH CORE) (FM OSC) (Canadian, AEP, UK, G, E)
L4	1-406-411-11	COIL (OSC) (AM OSC) (UK)
L4	1-406-409-11	COIL (OSC) (AM OSC) (IT, EA, EE)
L4	1-406-408-11	COIL (OSC) (AM OSC) (Canadian, AEP, G, E)
L5	1-412-006-31	INDUCTOR CHIP 10uH
L6	1-412-006-31	INDUCTOR CHIP 10uH
L101	1-410-999-11	INDUCTOR CHIP 3.3uH
L201	1-410-999-11	INDUCTOR CHIP 3.3uH
L301	1-410-999-11	INDUCTOR CHIP 3.3uH

< TRANSISTOR >

Q1	8-729-403-17	TRANSISTOR	XN1215
Q2	8-729-216-22	TRANSISTOR	2SA1162-G
Q101	8-729-207-65	TRANSISTOR	RN1410
Q201	8-729-207-65	TRANSISTOR	RN1410

MAIN

Ref.No.	Part No.	Description			Remark
Q301	8-729-402-13	TRANSISTOR	XN1501		
		< RESISTOR >			
R1	1-216-003-11	METAL GLAZE	12	5%	1/10W (EE)
R1	1-216-009-00	METAL CHIP	22	5%	1/10W (EXCEPT EE)
R2	1-216-081-00	METAL CHIP	22K	5%	1/10W
R3	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R4	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R5	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R6	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R101	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R102	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R103	1-216-079-00	METAL CHIP	18K	5%	1/10W
R104	1-216-075-00	METAL CHIP	12K	5%	1/10W
R105	1-216-117-00	METAL CHIP	680K	5%	1/10W
R106	1-216-046-00	METAL CHIP	750	5%	1/10W
R107	1-216-313-00	METAL CHIP	8.2	5%	1/10W
R108	1-216-295-00	METAL CHIP	0	5%	1/10W
R109	1-216-095-00	METAL CHIP	82K	5%	1/10W
R131	1-216-112-00	METAL GLAZE	430K	5%	1/10W
R132	1-216-089-00	METAL CHIP	47K	5%	1/10W
R133	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R134	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R135	1-216-079-00	METAL CHIP	18K	5%	1/10W
R201	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R202	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R203	1-216-079-00	METAL CHIP	18K	5%	1/10W
R204	1-216-075-00	METAL CHIP	12K	5%	1/10W
R205	1-216-117-00	METAL CHIP	680K	5%	1/10W
R206	1-216-046-00	METAL CHIP	750	5%	1/10W
R207	1-216-313-00	METAL CHIP	8.2	5%	1/10W
R208	1-216-295-00	METAL CHIP	0	5%	1/10W
R209	1-216-095-00	METAL CHIP	82K	5%	1/10W
R231	1-216-112-00	METAL GLAZE	430K	5%	1/10W
R232	1-216-089-00	METAL CHIP	47K	5%	1/10W
R233	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R234	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R235	1-216-079-00	METAL CHIP	18K	5%	1/10W
R304	1-216-105-00	METAL CHIP	220K	5%	1/10W
R305	1-216-081-00	METAL CHIP	22K	5%	1/10W
R306	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R308	1-216-079-00	METAL CHIP	18K	5%	1/10W
R309	1-216-112-00	METAL GLAZE	430K	5%	1/10W
R320	1-216-089-00	METAL CHIP	47K	5%	1/10W
R321	1-216-097-00	METAL CHIP	100K	5%	1/10W
R331	1-216-001-00	METAL CHIP	10	5%	1/10W
R332	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref.No.	Part No.	Description			Remark
R601	1-219-163-11	METAL GLAZE	1.1	5%	1/10W
R602	1-216-304-11	METAL GLAZE	3.3	5%	1/10W
R603	1-216-046-00	METAL CHIP	750	5%	1/10W
		< VARIABLE RESISTOR >			
RV301	1-223-610-11	RES, VAR, CARBON 10K/10K (VOLUME ◢)			
RV601	1-241-028-11	RES, ADJ, CARBON 330			
		< SWITCH >			
S301	1-571-986-31	SWITCH, LEAF (DIR)			
S302	1-571-986-11	SWITCH, LEAF (POWER)			
S303	1-692-298-12	SWITCH, SLIDE (TAPE SELECT/FM SENS, FM MODE)			
S304	1-692-299-11	SWITCH, SLIDE (FUNCTION)			
S305	1-692-898-11	SWITCH, SLIDE (AVLS)			
		< TRANSFORMER >			
T1	1-404-951-21	TRANSFORMER, IF (UK)			
T1	1-404-949-11	TRANSFORMER, IF (EXCEPT UK)			
		< THERMISTOR >			
TH601	1-809-279-11	THERMISTOR, POSITIVE			
TH602	1-809-029-11	THERMISTOR, POSITIVE			
		< VIBRATOR >			
X1	1-577-091-21	OSCILLATOR, CRYSTAL (19kHz)			
X2	1-567-097-61	FILTER, CERAMIC (10.7MHz)			

****

MISCELLANEOUS

****

20	1-467-642-11	MEGA BASS UNIT (ROTARY)
HP901	1-500-118-11	HEAD, MAGNETIC (PLAYBACK)
M901	1-698-353-11	MOTOR, DC
L1	1-501-665-11	ANTENNA, FERRITE-ROD (MW)

Ref.No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-528-179-11	BATTERY, STORAGE, NI-CD (WM-FX309)	
	1-528-406-11	BATTERY CHARGER (BC-800Y) (WM-FX309)	
	3-346-518-01	CLIP, BELT	
	3-758-257-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, GERMAN, DUTCH, SWEDISH, ITALIAN, PORTUGUESE)	
	3-758-257-41	MANUAL, INSTRUCTION (ENGLISH, GERMAN, POLISH, RUSSIAN, HUNGARIAN, CZECH)	
*	3-910-228-01	INDIVIDUAL CARTON (WM-FX309)	
*	3-910-275-01	INDIVIDUAL CARTON (Canadian, E) (WM-FX305)	
*	3-910-276-01	INDIVIDUAL CARTON (AEP, G, IT, EA, EE) (WM-FX305)	
*	3-910-277-01	INDIVIDUAL CARTON (UK) (WM-FX305)	
*	3-910-312-01	CUSHION	
	8-953-538-90	HEADPHONE MDR-E741//K SET (EXCEPT UK)	
	8-953-546-90	HEADPHONE MDR-E741V SET (UK)	
	X-3329-657-1	ATTACHMENT ASSY	

9-959-435-11

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General Audio Group

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WM-FX305/FX309

SONY

SERVICE MANUAL

Canadian Model
AEP Model
UK Model
E model
WM-FX305
East European Model
WM-FX305/FX309

CORRECTION-1

Correct your service manual as shown below.

____ (Under line) : indicates corrected portion.

Page	INCORRECT			CORRECT		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
18	17	3-910-543-01	KNOB, (MB-FR)	17	3-910-537-01	KNOB, (MB-VL)
18	18	3-910-537-01	KNOB, (MB-VL)	18	3-910-543-01	KNOB, (MB-FR)

(RPC-96003)

9-959-435-91

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Personal A&V Products Div.

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